ABSTRACT OF THE DISCLOSURE

A scanning unit reads an original color image and outputs an rgb signal of the color image. A scanner γ correction unit that converts the rgb signal from the scanning unit into an RGB signal that is a density

5 signal. A color converting unit converts the RGB signal into a CM signal. An edge amount calculating unit calculates an edge amount from the CM signal. A filter processing unit performs an adaptive filtering process for the RGB signal based on the edge amount.